

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1. (Currently amended) A medical method, comprising:
providing implanting an implantable therapeutic device (ITD) in a patient;
~~configured to measure a primary parameter indicative of an aberrant heart rhythm and to deliver a therapy to correct the aberrant heart rhythm;~~
providing implanting an implantable sensing device (ISD) in a patient; configured
~~to measure a secondary parameter indicative of the aberrant heart rhythm;~~
implanting the ITD and ISD in a patient;
connecting the ITD and ISD; and
operating the ITD as a function of the measured primary parameter and the
~~measured secondary parameter.~~
detecting an ECG signal of the patient;
measuring a vascular blood pressure of the patient; and
directing the ITD to deliver therapy to the patient if and only if both the ECG
signal and the measured vascular blood pressure are indicative of an aberrant heart rhythm.
- 2-7. (Canceled).
8. (Currently amended) An implantable system, comprising:
an implantable therapeutic device (ITD) configured to measure a primary
~~parameter~~ detect an ECG signal indicative of an aberrant heart rhythm and to deliver a therapy to
correct the aberrant heart rhythm; and
an implantable sensing device (ISD) comprising a pressure transducer configured
to measure a secondary parameter indicative of the aberrant heart rhythm, vascular blood
pressure, the ISD being connected to the ITD;

wherein the ITD includes an algorithm that dictates the delivery of the therapy if and only if both the ~~measured primary parameter and the measured secondary parameter~~ ECG signal and the measured vascular blood pressure are indicative of an aberrant heart rhythm.

9-13. (Canceled).

14. (Currently amended) An implantable therapeutic device (ITD) configured to measure ~~a primary parameter~~ an ECG signal indicative of an aberrant heart rhythm and to deliver a therapy to correct the aberrant heart rhythm the ITD configured for connection to an implantable sensing device (ISD) configured to measure a ~~secondary parameter~~ vascular blood pressure indicative of the aberrant heart rhythm, wherein the ITD includes an algorithm that dictates the delivery of the therapy if and only if both the measured ~~primary parameter~~ ECG signal and the measured ~~secondary parameter~~ vascular blood pressure are indicative of an aberrant heart rhythm.

15. (New) The method of claim 1, wherein measuring vascular blood pressure comprises inserting a distal end of a pressure transmission catheter into a vascular lumen.

16. (New) The method of claim 15, wherein the distal end of the pressure transmission catheter is inserted into the vascular lumen by a distance less than about 10 mm.

17. (New) The method of claim 15, wherein the distal end of the pressure transmission catheter is inserted into the vascular lumen by a distance in the range of about 5 mm to 10 mm.

18. (New) The method of claim 15, wherein the pressure transmission catheter has an outer diameter smaller than about 1.5 mm.

19. (New) The method of claim 15, wherein the pressure transmission catheter has an outer diameter in the range of about 0.5 mm to 1.5 mm.

20. (New) The system of claim 8, wherein the ISD comprises a pressure transmission catheter defining a lumen.

21. (New) The system of claim 20, wherein the pressure transducer is disposed in fluid communication with the lumen.

22. (New) The system of claim 21, further comprising a fluid disposed in the lumen.

23. (New) The system of claim 22, further comprising a barrier disposed proximate a distal end of the lumen.

24. (New) The system of claim 23, wherein the barrier readily transmits pressure signals while retaining the fluid in the lumen.

25. (New) The system of claim 23, wherein the barrier comprises a gel plug disposed in the lumen.

26. (New) The system of claim 23, wherein the barrier comprises a polymeric membrane.

27. (New) The method of claim 20, wherein the pressure transmission catheter has an outer diameter smaller than about 1.5 mm.

28. (New) The method of claim 20, wherein the pressure transmission catheter has an outer diameter in the range of about 0.5 mm - 1.5 mm.

29. (New) The system of claim 8, further comprising an interconnect lead electrically connecting the ISD and the ITD.